

BEFORE THE ARIZONA POWER PLANT AND TRANSMISSION LINE SITING COMMITTEE

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IN THE MATTER OF THE APPLICATION Docket No. L-00000GG-08-0407-00139 OF ARIZONA SOLAR ONE, LLC., IN CONFORMANCE WITH THE REQUIREMENTS OF ARIZONA REVISED Arizona Corporation Commission STATUTES §§ 40-360, et seq., FOR A Case No. 139 DOCKETED CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY AUTHORIZING THE SEP 15 2008 CONSTRUCTION OF THE SOLANA GENERATING STATION, LOCATED IN **DOCKETED BY** SECTION 9, TOWNSHIP 6 SOUTH, RANGE \mathcal{M}_{l} 7 WEST, MARICOPA COUNTY, ARIZONA. IN THE MATTER OF THE APPLICATION Docket No. L-00000GG-08-0408-00140 OF ARIZONA SOLAR ONE, LLC., IN **CONFORMANCE WITH THE** REQUIREMENTS OF ARIZONA REVISED STATUTES §§ 40-360, et seq., FOR A Case No. 140 CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY AUTHORIZING THE CONSTRUCTION OF THE SOLANA GEN-OHINED OHINED TIE, WHICH ORIGINATES AT THE SOLANA GENERATING STATION, LOCATED IN SECTION 9, TOWNSHIP 6 SOUTH, RANGE 7 WEST, MARICOPA COUNTY, AND TERMINATES AT THE PANDA 230 kV SUBSTATION, LOCATED IN SECTION 20, TOWNSHIP 5 SOUTH, RANGE 4 WEST, GILA BEND, ARIZONA.

NOTICE OF FILING WITNESS SUMMARIES AND PROPOSED FORMS OF CERTIFICATES OF ENVIRONMENTAL COMPATIBILITY

Pursuant to Chairman Foreman's August 6, 2008 Procedural Order, Arizona Solar One, LLC ("Applicant") files the attached witness summaries of Kate Maracas, Hank Price, Pat Dinkel, Larry Killman, Kenda Pollio, and Jessica Wilton. Applicant is also filing with this Notice proposed forms of Certificates of Environmental Compatibility.

1	RESPECTFULLY SUBMITTED this 15 day of September, 2008.			
2	LEWIS AND ROCA LLP			
3	Matt Bingbon for			
4	Thomas H. Campbell			
5	Albert H. Acken 40 N. Central Avenue			
6	Phoenix, Arizona 85004 Attorneys for Arizona Public Service Company			
7				
9	ORIGINAL and twenty-five (25) copies of the foregoing filed this 15 th day			
10	of September, 2008, with:			
11	The Arizona Corporation Commission Utilities Division – Docket Control			
12	1200 W. Washington Street Phoenix, Arizona 85007			
13				
14	COPY of the foregoing hand-delivered and served electronically			
15	this 15 th day of September, 2008, to:			
16 17	John Foreman, Chairman			
18	Arizona Power Plant and Transmission Line Siting Committee Office of the Attorney General PAD/CPA 1275 W. Washington Street			
19				
20	Phoenix, Arizona 85007			
21	Charles H. Hains Legal Division			
22	Arizona Corporation Commission 1200 W. Washington Street			
23	Phoenix, Arizona 85007			
24				
25				

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1	COPY of the foregoing mailed			
2	this 15 th day of September, 2008, to:			
3	Timothy M. Hogan 202 E. McDowell Road			
4	Suite 153			
5	Phoenix, Arizona 85004 Attorneys for Sierra Club – Grand Canyon Chapter			
6	Jay Moyes			
7	Jeffrey Zimmerman			
8	Moyes Sellers & Sims 1850 N. Central Avenue			
9	Suite 1100 Phoenix, Arizona 85004			
10	Attorneys for Paloma Irrigation and Drainage District			
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12	Detty J. Duffin			
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Arizona Solar One, LLC Construction Project Docket No. L-00000GG-08-0407-00139

Arizona Solar One, LLC Transmission Project Docket No. L-00000GG-08-0408-00140

First Witness Panel

Witness Summary Of Kate Maracas and Hank Price

The first witness panel will consist of Kate Maracas, Vice President of Arizona Operations, and Hank Price, Vice President for Technology Development. Ms. Maracas will provide background about the Applicant and the Abengoa organization. She will describe Abengoa's solar power development experience. Ms. Maracas will describe the project, including its output, site location, selection process and the 230kV transmission line. She will explain the route selection process and route alternatives for the 230kV transmission line. She will identify the corridor widths and the total cost of the project. She will discuss the type of transmission facilities to be used and the schedule for the development and construction of the project. Ms. Maracas will describe the need for the project and the benefits to be gained from the project, both environmental and economic.

Mr. Price will provide a discussion of the project design and operation, including a description of the major components, such as the solar field, power block, thermal energy storage and the transfer fluid system. He will describe prior uses of the technology. He will also discuss the water usage of the plant.

Arizona Solar One, LLC Construction Project Docket No. L-00000GG-08-0407-00139

Arizona Solar One, LLC Transmission Project Docket No. L-00000GG-08-0408-00140

Second Witness Panel

Witness Summary Of Pat Dinkel

The second witness panel will consist of one witness, Pat Dinkel, Director of Resource Acquisition and Renewable Energy for Arizona Public Service Company. Mr. Dinkel will describe the renewable resource requirements adopted by the Arizona Corporation Commission and explain how this project will help APS meet those requirements. He will also explain how this project will provide APS with firm, reliable, fixed-price power that will help APS meet its needs for future additional power as well as its need to diversify its power resources.

Arizona Solar One, LLC Construction Project Docket No. L-00000GG-08-0407-00139

Arizona Solar One, LLC Transmission Project Docket No. L-00000GG-08-0408-00140

Third Witness Panel

Witness Summary Of Larry Killman, Kenda Pollio, and Jessica Wilton

The third panel will consist of three environmental witnesses, Larry Killman, Kenda Pollio, and Jessica Wilton (collectively the "Environmental Panel"). Mr. Killman, Ms. Pollio, and Ms. Wilton facilitated the public outreach efforts and conducted the environmental analyses for Solana Generation Station and Solana Gen-Tie ("Project"). Their testimony will include a discussion of the public outreach program, the environmental siting process, a video tour of the preferred route and alternatives, and a summary of the environmental analyses' results. With respect to the public outreach program, the Environmental Panel will describe the public process phases and summarize the outreach methods used. Regarding the siting process, the Environmental Panel will describe the selection criteria used to identify the power plant site and explain the data collection and data evaluation processes undertaken for the Project. For the video tour, the Environmental Panel will present a video showing the plant site, preferred route, transmission line, and transmission line alternatives. In the discussion of the environmental analyses' results, the Environmental Panel will present findings and conclusions with respect to land use, visual resources (including simulations from key observation points), noise, cultural resources, biological resources, and air quality, and will provide their expert opinion concerning the environmental compatibility of the Project. More details with respect to the Environmental Panel's testimony are contained in the presentation slides, which have been provided to the Siting Committee and the intervenors.



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BEFORE THE ARIZONA POWER PLANT AND TRANSMISSION LINE SITING COMMITTEE

IN THE MATTER OF THE APPLICATION)
OF ARIZONA SOLAR ONE, LLC., IN) Docket No. L-00000GG-08-0407-00139
CONFORMANCE WITH THE)
REQUIREMENTS OF ARIZONA REVISED)
STATUTES §§ 40-360, et seq., FOR A) Case No. 139
CERTIFICATE OF ENVIRONMENTAL)
COMPATIBILITY AUTHORIZING THE)
CONSTRUCTION OF THE SOLANA)
GENERATING STATION, LOCATED IN)
SECTION 9, TOWNSHIP 6 SOUTH, RANGE	Ε)
7 WEST, MARICOPA COUNTY, ARIZONA.)
	_)
CONSTRUCTION OF THE SOLANA GENERATING STATION, LOCATED IN SECTION 9, TOWNSHIP 6 SOUTH, RANGE	•

CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY

Pursuant to notice given as provided by law, the Arizona Power Plant and Transmission
Line Siting Committee (the "Committee") held public hearings on September 22 and 23, 2008 and
October 14 and 15, 2008, in conformance with the requirements of Arizona Revised Statutes
("A.R.S.") §§ 40-360, et seq., for the purpose of receiving evidence and deliberating on the
Application of Arizona Solar One, LLC ("Applicant") for a Certificate of Environmental
Compatibility ("Certificate") in the above-captioned case (the "Project").

The following members and designees of members of the Committee were present at one or more of the hearings for the evidentiary presentations and/or for the deliberations:

John Foreman	Chairman, Designee for Arizona Attorney General, Terry Goddard
Paul Rasmussen	Designee for Director, Arizona Department of Environmental Quality
Gregg Houtz	Designee for Director, Arizona Department of Water Resources
Jack Haenichen	Designee for Director, Energy Office, Arizona Department of Commerce



Designee for Chairman, Arizona Corporation 1 David Eberhart Commission 2 Michael Biesemeyer Appointed Member 3 Jeff McGuire Appointed Member 4 Appointed Member Patricia Noland 5 Michael Palmer Appointed Member 6 7 Michael Whalen Appointed Member 8 Barry Wong Appointed Member 9 10

Applicant was represented by Thomas H. Campbell and Albert H. Acken of Lewis and Roca LLP. Arizona Corporation Commission ("ACC" or "Commission") Staff, represented by Charles H. Hains and Amanda Ho, the Sierra Club-Grand Canyon Chapter, represented by Timothy M. Hogan, and the Paloma Irrigation and Drainage District, represented by Jay Moyes and Jeffrey Zimmerman, were granted intervention pursuant to A.R.S. § 40-360.05.

At the conclusion of the hearings, the Committee, having received the Application, the appearances of the parties, the evidence, testimony and exhibits presented at the hearings, and being advised of the legal requirements of A.R.S. §§ 40-360 to 40-360.13, upon motion duly made and seconded, voted __ to __ to grant Applicant this Certificate of Environmental Compatibility (Line Siting Case No. 139) for the Project.

The Project as approved consists of a 280 MW gross output (250 MW nominal output) concentrated solar power electric generating plant located on an approximately 3000-acre site west of the Town of Gila Bend, in Maricopa County, Arizona. A general location map of the Project is set forth in **Exhibit A**.

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CONDITIONS

This Certificate is granted upon the following conditions:

- 1. The Applicant shall obtain all required approvals and permits necessary to construct the Project.
- 2. The Applicant shall comply with all existing applicable ordinances, master plans and regulations of the State of Arizona, the County of Maricopa, the United States, and any other governmental entities having jurisdiction.
- 3. This authorization to commence construction of the Project shall expire seven years from the date the Certificate is approved by the Commission; provided, however, that prior to such expiration the Applicant or its assignees may request that the Commission extend this time limitation.
- 4. The Applicant will provide to the Commission copies of the Project's executed interconnection agreement.
- 5. The Applicant shall comply with the notice and salvage requirements of the Arizona Native Plant Law and shall, to the extent feasible, minimize the destruction of native plants during Project construction.
- 6. Pursuant to A.R.S. § 41-844, if any archaeological, paleontological or historical site or object that is at least fifty years old is discovered on state, county or municipal land during Project-related activities, the person in charge shall promptly report the discovery to the Director of the Arizona State Museum, and in consultation with the Director, shall immediately take all reasonable steps to secure and maintain the preservation of the discovery. If human remains and/or funerary objects are encountered on private land during the course of any ground-disturbing activities relating to the development of the subject property, Applicant shall cease work on the affected area of the Project and notify the Director of the Arizona State Museum pursuant to A.R.S. § 41-865.



- 7. Within 120 days of the Commission decision granting this Certificate, Applicant will erect and maintain at the site a sign advising:
 - (a) That the site has been approved for the construction of a 280 MW generating facility;
 - (b) The expected date of completion of the Project;
 - (c) A phone number for public information regarding the Project;
 - (d) The name of the Project;
 - (e) The name of the Applicant; and
 - (f) The Applicant's website.
- 8. In connection with the construction of the Project, Applicant shall use commercially reasonable efforts, where feasible to give due consideration to use of qualified Arizona contractors.
- 9. The Applicant shall provide copies of this Certificate to the Maricopa County Planning and Development Department, the Arizona State Land Department, the State Historic Preservation Office, and the Arizona Game and Fish Department.
- 10. Prior to the date this Project is put into commercial service, the Applicant shall provide known homebuilders and developers within one mile of the Project the identity, location, and a pictorial depiction of the type of power line being constructed, accompanied by a written description, and encourage the developers and homebuilders to include this information in the developers' and homebuilders' homeowners' disclosure statements.
- 11. The Applicant shall submit a self-certification letter annually, identifying progress made with respect to each condition contained in the Certificate, including which conditions have been met. Each letter shall be submitted to the Utilities Division Director on December 1, beginning in 2009. Attached to each certification letter shall be documentation explaining how compliance with each condition was achieved.

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Copies of each letter along with the corresponding documentation shall be submitted to the Arizona Attorney General and Department of Commerce Energy Office. The requirement for the self-certification shall expire on the date the Project is placed into operation.

FINDINGS OF FACT AND CONCLUSIONS OF LAW

This Certificate incorporates the following findings of fact and conclusions of law:

- 1. The Project is in the public interest because it aids the state in meeting the need for an adequate, economical and reliable supply of electric power.
- 2. In balancing the need for the Project with its effect on the environment and ecology of the state, the conditions placed on the Certificate by the Committee effectively minimize its impact on the environment and ecology of the state.
- 3. The conditions placed on the Certificate by the Committee resolve matters concerning the need for the Project and its impact on the environment and ecology of the state raised during the course of proceedings, and as such, serve as the findings on the matters raised.
- 4. In light of these conditions, the balancing in the broad public interest results in favor of granting the Certificate.

Hon. John Foreman, Chairman

THE ARIZONA POWER PLANT AND TRANSMISSION LINE SITING COMMITTEE



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1 BEFORE THE ARIZONA POWER PLANT AND TRANSMISSION LINE SITING COMMITTEE 2 3 IN THE MATTER OF THE APPLICATION Docket No. L-00000GG-08-0408-00140 OF ARIZONA SOLAR ONE, LLC., IN 4 **CONFORMANCE WITH THE** 5 REQUIREMENTS OF ARIZONA REVISED STATUTES §§ 40-360, et seq., FOR A Case No. 140 6 CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY AUTHORIZING THE 7 CONSTRUCTION OF THE SOLANA GEN-TIE. WHICH ORIGINATES AT THE 8 SOLANA GENERATING STATION, 9 LOCATED IN SECTION 9, TOWNSHIP 6 SOUTH, RANGE 7 WEST, MARICOPA 10 COUNTY, AND TERMINATES AT THE PANDA 230 kV SUBSTATION, LOCATED 11 IN SECTION 20, TOWNSHIP 5 SOUTH, RANGE 4 WEST, GILA BEND, ARIZONA. 12 13 CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY 14 Pursuant to notice given as provided by law, the Arizona Power Plant and Transmission 15 Line Siting Committee (the "Committee") held public hearings on September 22 and 23, 2008 and 16 October 14 and 15, 2008, all in conformance with the requirements of Arizona Revised Statutes 17 ("A.R.S.") §§ 40-360, et seq., for the purpose of receiving evidence and deliberating on the 18

The following members and designees of members of the Committee were present at one or more of the hearings for the evidentiary presentations and/or for the deliberations:

Application of Arizona Solar One, LLC ("Applicant") for a Certificate of Environmental

Compatibility ("Certificate") in the above-captioned case (the "Project").

John Foreman	Chairman, Designee for Arizona Attorney General, Terry Goddard
Paul Rasmussen	Designee for Director, Arizona Department of Environmental Quality



1	Gregg Houtz	Designee for Director, Arizona Department of Water Resources
2		
3	Jack Haenichen	Designee for Director, Energy Office, Arizona Department of Commerce
4	David Eberhart	Designee for Chairman, Arizona Corporation
5		Commission
6	Michael Biesemeyer	Appointed Member
7	Jeff McGuire	Appointed Member
8	Patricia Noland	Appointed Member
9	Michael Palmer	Appointed Member
10	Michael Whalen	Appointed Member
11	Barry Wong	Appointed Member
12		

Applicant was represented by Thomas H. Campbell and Albert H. Acken of Lewis and Roca LLP. Arizona Corporation Commission ("ACC" or "Commission") Staff, represented by Charles H. Hains and Amanda Ho, the Sierra Club-Grand Canyon Chapter, represented by Timothy M. Hogan, and the Paloma Irrigation and Drainage District, represented by Jay Moyes and Jeffrey Zimmerman, were granted intervention pursuant to A.R.S. § 40-360.05.

At the conclusion of the hearings, the Committee, having received the Application, the appearances of the parties, the evidence, testimony and exhibits presented at the hearings, and being advised of the legal requirements of A.R.S. §§ 40-360 to 40-360.13, upon motion duly made and seconded, voted __ to __ to grant Applicant this Certificate of Environmental Compatibility (Line Siting Case No. 140) for the Project.

The Project as approved consists of approximately 20 miles of 230 kV transmission line and required substation facilities and modifications. The single-circuit may be constructed on either single-circuit or double-circuit towers. A general location map of the Project, described herein, is set forth in **Exhibit A**.

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The Project will originate at a new 230 kV substation within the Solana Generating Station site (Line Siting Case No. 139, proceeding concurrently with this case), located in Section 9, Township 6 South, Range 7 West, Maricopa County, Arizona. From the new substation within the Solana site, the Project will head to the intersection of Painted Rock Dam Road and Powerline Road. The Project will end at the existing Panda Substation (Line Siting Case No. 99) located in Section 20, Township 5 South, Range 4 West, Gila Bend, Arizona. From the intersection of Painted Rock Dam Road and Powerline Road, the Project's route will be as follows:

- A 1,000 foot-wide corridor that extends east for approximately 12 miles, in an alignment parallel to Powerline Road, to the Gila Bend Substation. The corridor width includes 500 feet north and 500 feet south of Powerline Road.
- A 1,000 foot-wide corridor that extends north for two miles, along the alignment of the existing APS 230 kV Gila Bend transmission line (Line Siting Case No. 26), to Watermelon Road. The corridor width includes 500 feet east and 500 feet west of the APS 230 kV Gila Bend to Gila River transmission line.
- A 2,000 foot-wide corridor that extends east, in an alignment parallel to Watermelon Road, to the Panda 230 kV Substation. The corridor width includes 1,000 feet north and 1,000 feet south of Watermelon Road.

CONDITIONS

This Certificate is granted upon the following conditions:

- 1. The Applicant shall obtain all required approvals and permits necessary to construct the Project.
- 2. The Applicant shall comply with all existing applicable ordinances, master plans and regulations of the State of Arizona, the County of Maricopa, the United States, and any other governmental entities having jurisdiction.
- 3. This authorization to commence construction of the Project shall expire seven years from the date the Certificate is approved by the Commission; provided, however, that



prior to such expiration the Applicant or its assignees may request that the Commission extend this time limitation

- 4. The Applicant shall make every reasonable effort to identify and correct, on a case-specific basis, all complaints of interference with radio or television signals from operation of the transmission lines and related facilities addressed in this Certificate. The Applicant shall maintain written records for a period of five years of all complaints of radio or television interference attributable to operation, together with the corrective action taken in response to each complaint. All complaints shall be recorded to include notations on the corrective action taken. Complaints not leading to a specific action or for which there was no resolution shall be noted and explained.
- 5. The Applicant shall comply with the notice and salvage requirements of the Arizona Native Plant Law and shall, to the extent feasible, minimize the destruction of native plants during Project construction.
- 6. Pursuant to A.R.S. § 41-844, if any archaeological, paleontological or historical site or object that is at least fifty years old is discovered on state, county or municipal land during Project-related activities, the person in charge shall promptly report the discovery to the Director of the Arizona State Museum, and in consultation with the Director, shall immediately take all reasonable steps to secure and maintain the preservation of the discovery. If human remains and/or funerary objects are encountered on private land during the course of any ground-disturbing activities relating to the development of the subject property, Applicant shall cease work on the affected area of the Project and notify the Director of the Arizona State Museum pursuant to A.R.S. § 41-865.
- 7. Before construction on this Project may commence, the Applicant must file a construction mitigation and restoration plan ("Plan") with ACC Docket Control. Where practicable, the Plan should specify the Applicant's plans for construction



access and methods to minimize impacts to wildlife and minimize vegetation disturbance outside of the Project right-of-way.

- 8. Within 120 days of the Commission decision granting this Certificate, Applicant will post signs in public rights-of-way giving notice of the Project corridor to the extent authorized by law. The Applicant shall place signs in prominent locations at reasonable intervals such that the public is notified along the full length of the transmission line until the transmission structures are constructed. To the extent practicable, within 45 days of securing easement or right-of-way for the Project, the Applicant shall erect and maintain signs providing public notice that the property is the site of a future transmission line. Such signage shall be no smaller than a normal roadway sign. The signs shall advise:
 - (a) That the site has been approved for the construction of Project facilities;
 - (b) The expected date of completion of the Project facilities;
 - (c) A phone number for public information regarding the Project;
 - (d) The name of the Project;
 - (e) The name of the Applicant; and
 - (f) The Applicant's website.
- 9. The Applicant shall provide copies of this Certificate to the Town of Gila Bend, the Maricopa County Planning and Development Department, the Arizona State Land Department, the State Historic Preservation Office, and the Arizona Game and Fish Department.
- 10. Prior to the date this Project is put into commercial service, the Applicant shall provide known homebuilders and developers within one mile of the center line of the Certificated route the identity, location, and a pictorial depiction of the type of power line being constructed, accompanied by a written description, and encourage the



developers and homebuilders to include this information in the developers' and homebuilders' homeowners' disclosure statements.

- 11. Before commencing construction of Project facilities located parallel to and within 100 feet of any existing natural gas or hazardous liquid pipeline, the Applicant shall:
 - (a) Perform the appropriate grounding and cathodic protection studies to show that the Project's location parallel to and within 100 feet of such pipeline results in no material adverse impacts to the pipeline or to public safety when both the pipeline and the Project are in operation. If material adverse impacts are noted in the studies, Applicant shall take appropriate steps to ensure that such material adverse impacts are mitigated. Applicant shall provide to Commission Staff reports of studies performed; and
 - (b) Perform a technical study simulating an outage of the Project that may be caused by the collocation of the Project parallel to and within 100 feet of the existing natural gas or hazardous liquid pipeline. This study should either:

 i) show that such outage does not result in customer outages; or ii) include operating plans to minimize any resulting customer outages. Applicant shall provide a copy of this study to Commission Staff.
- 12. Applicant will follow the latest WECC/NERC planning standards as approved by the Federal Energy Regulatory Commission, and National Electrical Safety Code construction standards.
- 13. The Applicant shall submit a self-certification letter annually, identifying progress made with respect to each condition contained in the Certificate, including which conditions have been met. Each letter shall be submitted to the Utilities Division Director on December 1, beginning in 2009. Attached to each certification letter shall be documentation explaining how compliance with each condition was achieved. Copies of each letter along with the corresponding documentation shall be submitted to



the Arizona Attorney General and Department of Commerce Energy Office. The requirement for the self-certification shall expire on the date the Project is placed into operation.

FINDINGS OF FACT AND CONCLUSIONS OF LAW

This Certificate incorporates the following findings of fact and conclusions of law:

- 1. The Project is in the public interest because it aids the state in meeting the need for an adequate, economical and reliable supply of electric power.
- 2. In balancing the need for the Project with its effect on the environment and ecology of the state, the conditions placed on the Certificate by the Committee effectively minimize its impact on the environment and ecology of the state.
- 3. The conditions placed on the Certificate by the Committee resolve matters concerning the need for the Project and its impact on the environment and ecology of the state raised during the course of proceedings, and as such, serve as the findings on the matters raised.
- 4. In light of these conditions, the balancing in the broad public interest results in favor of granting the Certificate.

THE ARIZONA POWER PLANT AND TRANSMISSION LINE SITING COMMITTEE

Hon. John Foreman, Chairman